



4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-2016-08-22-01/02 **Date:** 30-08-2016
Client : Assistant Executive Engineer, Project- Yelahanka, BBMP, Bangalore
Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore
Agency : Sri.G.T. Rajegowda
Sample Id : 2016-08-22-01/02
Type of sample Zuari 53 grade
Reference to BIS codes: IS 12269 : 2013, 43 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test: 22-08-2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	31.0%	Not specified
2	Initial Setting time	165 minutes	Not less than 30 minutes
3	Final Setting time	305 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	27.50N/mm ²	Not less than 23 N/mm ²
	7 Days	38.0N/mm ²	Not less than 33 N/mm ²
	28 Days	Test Due Date on 19-9-2016	Min 43 N/mm ² Max 58 N/mm ²

Note:-

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

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Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Arunakshi.P

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Technical Manager



4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-2016-08-01-01-02 **Date:** 29-08-2016

Client : Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP, Bangalore

Agency : Sri.G.T. Rajegowda

Sample Id : 2016-08-01-01-02

Type of sample Zuari 53 grade

Reference to BIS codes: IS 12269 : 2013, 43 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 01-08-2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	29.5%	Not specified
2	Initial Setting time	150 minutes	Not less than 30 minutes
3	Final Setting time	290 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	27.50N/mm ²	Not less than 23 N/mm ²
	7 Days	38.0N/mm ²	Not less than 33 N/mm ²
	28 Days	55.5N/mm ²	Min 43 N/mm ² Max 58 N/mm ²

Note:-

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Technical Manager



4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF FINE AGGREGATE

LAB ID: CP-2016-08-22-01/02 **Date:** 24-08-2016

Client : Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP, Bangalore

Agency : Sri.G.T. Rajegowda

Type of Sample Fine aggregate

Sample Id : 2016-03-14-01-01

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2016(Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 (Part - 1, 2, 3) Reaffirmed 1997
IS 2386 Part 1: Particle Size and Shape

Date of test: 23-08-2016

Total Weight of the Sample taken : 1000 gms

SL. No	Sieve size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample Conforms to Grading Zone I
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100	
3	2.36 mm	110	196	19.6	80.4	60-95	75-100	85-100	95-100	
4	1.18 mm	250	446	44.6	55.4	30-70	55-90	75-100	90-100	
5	600 micron	240	686	68.6	31.4	15-34	35-59	60-79	80-100	
6	300 micron	180	866	86.6	13.4	5-20	8-30	12-40	15-50	
7	150 micron	66	932	93.2	6.8	0-10	0-10	0-10	0-15	
8	Pan	68	1000	100	0	---	---	---	---	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-08-01-01-02

Date: 23/08/2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

SampleType : M20 Pedastal Concrete

Age of the sample: 28 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 codes:

Date of test: 22-08-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/08/01/01/02 (a)	M 20	25-07-2016	22-08-2016	150.54 X 150.26 X 151.65	22620	8.172	539.5	23.9	23.5
	1/2	2016/08/01/01/02 (b)	M 20	25-07-2016	22-08-2016	149.90 X 149.95 X 150.82	22477	8.153	518.6	23.1	
	1/3	2016/08/01/01/02 (c)	M 20	25-07-2016	22-08-2016	150.82 X 151.03 X 150.21	22777	8.129	535.3	23.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-07-27-01-02

Date: 18-08-2016

Client: Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore

Project Name: Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

Sample Type: M20 Pedastal Concrete

Age of the sample: 28 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 codes:

Date of test: 17-08-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/07/27 /01/02 (a)	M 20	20-07-2016	17-08-2016	149.32 X 151.13 X 149.82	22566	8.189	530.5	23.5	23.5
	1/2	2016/07/27 /01/02 (b)	M 20	20-07-2016	17-08-2016	151.28 X 149.15 X 150.22	22563	8.144	538.6	23.9	
	1/3	2016/07/27 /01/02 (c)	M 20	20-07-2016	17-08-2016	151.14 X 150.43 X 151.29	22736	8.159	525.3	23.1	

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-07-22-01-02

Date: 13/8/2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

SampleType : M20 Padastal Concrete

Age of the sample: 28 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
codes:

Date of test: 12-08-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/07/22/01/02 (a)	M 20	15-07-2016	12-08-2016	150.62 X 150.82 X 151.37	22717	8.196	553.7	24.4	24.3
	1/2	2016/07/22/01/02 (b)	M 20	15-07-2016	12-08-2016	150.66 X 149.37 X 150.67	22554	8.167	544.8	24.2	
	1/3	2016/07/22/01/02 (c)	M 20	15-07-2016	12-08-2016	151.67 X 150.63 X 150.61	22846	8.162	556.9	24.4	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF PHYSICAL PROPERTIES OF CEMENT 53- GRADE

LAB ID: CP-2016-07-11-01/06 **Date:** 09-08-2016

Client : Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency : Sri.G.T. Rajegowda

Sample Id : 2016-07-11-01/03

Type of sample Zuari 53 grade

Reference to BIS codes: IS 12269 : 2013, 43 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 4,5, 6):1988
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test: 11/7/2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269 : 2013
1	Standard Consistency	28.0%	Not specified
2	Initial Setting time	165 minutes	Not less than 30 minutes
3	Final Setting time	310 minutes	Not more than 600 minutes
4	Compressive Strength		
	3 Days	28.0N/mm ²	Not less than 23 N/mm ²
	7 Days	38.5N/mm ²	Not less than 33 N/mm ²
	28 Days	55.0N/mm ²	Min 43 N/mm ² Max 58 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF FINE AGGREGATE

LAB ID: CP-2016-08-01-01-02 **Date:** 03-08-2016

Client : Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP, Bangalore

Agency : Sri.G.T. Rajegowda

Type of Sample Fine aggregate

Sample Id : 2016-08-01-01-01

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2016(Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 (Part - 1, 2, 3) Reaffirmed 1997
IS 2386 Part 1: Particle Size and Shape

Date of test: 02-08-2016

Total Weight of the Sample taken : 1000 gms

SL. No	Sieve size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample Conforms to Grading Zone II
2	4.75 mm	89	89	8.9	91.1	90-100	90-100	90-100	95-100	
3	2.36 mm	110	199	19.9	80.1	60-95	75-100	85-100	95-100	
4	1.18 mm	193	392	39.2	60.8	30-70	55-90	75-100	90-100	
5	600 micron	183	575	57.5	42.5	15-34	35-59	60-79	80-100	
6	300 micron	223	798	79.8	20.2	5-20	8-30	12-40	15-50	
7	150 micron	129	927	92.7	7.3	0-10	0-10	0-10	0-15	
8	Pan	73	1000	100	0	---	---	---	---	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-08-01-01-02

Date: 2/8/2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

SampleType : M20 Pedastal Concrete

Age of the sample: 7 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
codes:

Date of test: 01-08-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/08/01/01/01 (a)	M 20	25-07-2016	01-08-2016	148.72 X 150.43 X 150.72	22372	8.192	394.6	17.6	17.0
	1/2	2016/08/01/01/01 (b)	M 20	25-07-2016	01-08-2016	150.18 X 150.29 X 149.72	22570	8.154	372.8	16.5	
	1/3	2016/08/01/01/01 (c)	M 20	25-07-2016	01-08-2016	150.22 X 151.02 X 150.18	22686	8.128	382.1	16.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-07-27-01-02

Date: 28-07-2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

SampleType : M20 Pedastal Concrete

Age of the sample: 7 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 codes:

Date of test: 27-07-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/07/27 /01/01 (a)	M 20	20-07-2016	27-07-2016	149.55 X 150.76 X 149.24	22546	8.127	386.7	17.2	16.6
	1/2	2016/07/27 /01/01 (b)	M 20	20-07-2016	27-07-2016	151.28 X 149.53 X 151.23	22621	8.210	384.9	17.0	
	1/3	2016/07/27 /01/01 (c)	M 20	20-07-2016	27-07-2016	151.12 X 150.19 X 150.08	22831	8.154	359.6	15.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

LAB ID: CP-2016-07-22-01-02

Date: 23/7/2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore

Agency: Sri.G.T. Rajegowda

SampleType : M20 Footing Base Concrete

Age of the sample: 7 days Compressive Strength

Reference to BIS IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 codes:

Date of test: 22-07-2016

Sl. No.	Identification of sample	Sample ID No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen mm	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	1/1	2016/07/22/01/01 (a)	M 20	15-07-2016	22-07-2016	150.28 X 149.97 X 151.29	22537	8.165	398.4	17.7	17.3
	1/2	2016/07/22/01/01 (b)	M 20	15-07-2016	22-07-2016	150.22 X 150.32 X 150.65	22581	8.194	382.1	16.9	
	1/3	2016/07/22/01/01 (c)	M 20	15-07-2016	22-07-2016	151.04 X 150.31 X 150.92	22703	8.153	391.8	17.3	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL

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TEST RESULTS OF FINE AGGREGATE

LAB ID: CP-2016-07-11-01/06 **Date:** 13-07-2016
Client : Assistant Executive Engineer, Project-Yelahanka, BBMP, Bangalore
Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP Bangalore
Agency : Sri.G.T. Rajegowda
Type of Sample Fine aggregate
Sample Id : 2016-07-11-01-01
Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2016(Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 (Part - 1, 2, 3) Reaffirmed 1997
IS 2386 Part 1: Particle Size and Shape
Date of test: 12/7/2016
Total Weight of the Sample taken : 1000 gms

SL. No	Sieve size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample Conforms to Grading Zone II
2	4.75 mm	58	58	5.8	94.2	90-100	90-100	90-100	95-100	
3	2.36 mm	163	221	22.1	77.9	60-95	75-100	85-100	95-100	
4	1.18 mm	209	430	43	57.0	30-70	55-90	75-100	90-100	
5	600 micron	196	626	62.6	37.4	15-34	35-59	60-79	80-100	
6	300 micron	280	906	90.6	9.4	5-20	8-30	12-40	15-50	
7	150 micron	43	949	94.9	5.1	0-10	0-10	0-10	0-15	
8	Pan	51	1000	100	0	---	---	---	---	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF STEEL
(IS 1786-2008)**

LAB ID: CP-2016-07-11-01-06 **Date:** 13/7/2016

Client : Assistant Executive Engineer, Project-Yelahanka , BBMP , Bangalore

Project Name Providing seating steps to gallery at Swamy Vivekanda Park in Ward No-4 BBMP, Bangalore

Agency: Sri.G.T. Rajegowda

Type of Sample Indus, 20mm Dia, Fe 415

Sample Id : 2016-07-11-01-06

Date of test: 12/7/2016

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)
1	Indus	Fe 415	20mm	2.47	467	593	18%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe 415	20mm	Satisfactory	Satisfactory

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